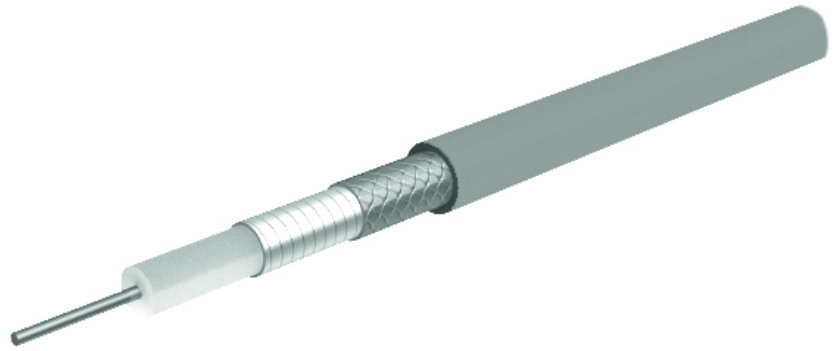


Flexible, 50 Ohm, 18 GHz, 85°C, ø8.2 mm, LSFH jacket

SUCOFLEX_106_I

Properties

- Applicable up to 18 GHz
- Excellent insertion and return loss
- Extremely reliable and robust
- A wide range of cables, connectors and armours
- MIL qualified



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	
Outer conductor	Copper, Silver plated	Braid	
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	8.2mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 18 GHz
Capacitance	87 pF
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Screening effectiveness	90 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3.8 kV

Mechanical data	
Weight	approx. 146 g/m
Static bending radius	≥ 24 mm
Dynamic bending radius	< 40 mm

Environmental data	
Operation temperature	-40 °C ... 85°C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1)
Fire characteristics	contains halogene

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SUCOFLEX_106_I

Suitable connectors

Cable group	U98
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Ordering information

Item number	Item description	Available as assembly only
84034126	SUCOFLEX_106_I	Yes

Power MatrixCalculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

a coefficient typical =	0.15	b coefficient typical =	0.0071
fmax =	18.0	P at 1 GHz =	928.0
Frequency	Nom. attenuation	Nom. attenuation Max.	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.069	0.021	2075
0.40	0.098	0.030	1467
0.60	0.120	0.037	1198
0.80	0.140	0.043	1038
1.00	0.157	0.048	928
1.20	0.173	0.053	847
1.40	0.187	0.057	784
1.60	0.201	0.061	734
1.80	0.214	0.065	692
2.00	0.226	0.069	656
4.00	0.328	0.100	464
6.00	0.410	0.125	379
8.00	0.481	0.147	328
10.00	0.545	0.166	293
18.00	0.764	0.233	219

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